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	Applicant(s) John C. Harvey and James W. Cuddihy	
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## UNITED STATES PATENT DOCUMENTS

EXAMINER INITIALS	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE
MM	Re 27,810	November 20, 1973	Buehrle	325/321	
	2,418,127	April 1, 1947	Labin	178/44	
	2,563,448	August 7, 1951	Aram	178/5.1	
	3,071,649	January 1, 1963	Goodall	179/1.5	
	3,107,274	October 15, 1963	Roschke	178/5.1	
	3,133,986	May 19, 1964	Morris et al.	178/5.1	
	3,251,051	May 10, 1966	Harries	340/345	
	3,470,309	September 30, 1969	Nyberg	178/5.1	
	3,478,166	November 11, 1969	Reiter et al.	178/5.1	
	3,526,843	September 1, 1970	Sanville	329/104	
	3,546,684	December 8, 1970	Maxwell et al.	340/172.5	
	3,639,686	February 1, 1972	Walker et al.	178/5.8R	
	3,649,749	March 14, 1972	Gibson	178/5.6	
	3,651,261	March 21, 1972	Guanelia	178/22	
	3,666,888	May 30, 1972	Sekimoto	178/69.5 TV	
	3,723,637	March 27, 1973	Fujio et al.	178/5.2R	
	3,746,799	July 17, 1973	Gentges	178/22	
	3,755,624	August 28, 1973	Sekimoto	178/69.5 TV	
	3,769,579	October 30, 1973	Harney	325/31	
	3,773,979	November 20, 1973	Kirk, Jr. et al.	179/15 FD	
	3,777,053	December 4, 1973	Wittig et al.	178/5.1	
	3,789,131	January 29, 1974	Harney	178/5.1	
	3,794,922	February 26, 1974	Osborn et al.	325/53	
	3,795,763	March 5, 1974	Golding et al.	178/5.6	
	3,813,482	May 28, 1974	Blonder	178/5.1	
	3,826,863	July 30, 1974	Johnson	178/5.1	
	3,859,596	January 7, 1975	Jannery et. al.	325/31	
	3,882,289	May 6, 1975	Walding et al.	200/11 D	
	3,885,089	May 20, 1975	Callais et al.	178/5.1	
	3,889,054	June 10, 1975	Nagel et al.	178/6.8	
	3,894,177	July 8, 1975	Howell et al.	178/5.6	
MM	3,896,262	July 22, 1975	Hudspeth et al.	178/5.1	

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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE
MM	3,896,266	July 22, 1975	Waterbury	179/1 SB	
	3,916,091	October 28, 1975	Kirk, Jr. et al.	178/5.1	
	3,924,059	December 2, 1975	Horowitz	178/5.1	
	3,950,618	April 13, 1976	Bloisi	179/2 AS	
	3,958,081	May 18, 1976	Ehrsam et al.	178/22	
	3,975,585	August 17, 1976	Kirk, Jr. et al.	178/5.1	
	3,990,012	November 2, 1976	Karnes	325/308	
	3,996,586	December 7, 1976	Dillon et al.	340/347 DD	
	4,004,085	January 18, 1977	Makino et al.	340/324	
	4,008,369	February 15, 1977	Theurer et al.	358/84	
	4,013,875	March 22, 1977	McGlynn	235/150.2	
	4,015,286	March 29, 1977	Russell	358/13	
	4,019,201	April 19, 1977	Hartung et al.	358/124	
	4,020,419	April 26, 1977	Caspari et al.	325/421	
	4,024,574	May 17, 1977	Nieson	358/117	
	4,024,575	May 17, 1977	Harney et al.	358/118	
	4,027,267	May 31, 1977	Larsen	329/106	
	4,027,331	May 31, 1977	Nicol	358/135	
	4,042,958	August 16, 1977	Saylor et al.	358/141	
	4,044,376	August 23, 1977	Porter	358/84	
	4,045,814	August 30, 1977	Hartung et al.	358/124	
	4,054,911	October 18, 1977	Fletcher et al.	358/141	
	4,064,490	December 20, 1977	Nagel	364/2000	
	4,070,693	January 24, 1978	Shutterly	358/123	
	4,075,660	February 21, 1978	Horowitz	358/124	
	4,079,419	March 14, 1978	Seigle et al.	358/193	
	4,081,754	March 28, 1978	Jackson	325/396	
	4,081,832	March 28, 1978	Sherman	358/124	
	4,086,434	April 25, 1978	Bocchi	79/2 AM	
	4,088,958	May 9, 1978	Suzuki et al.	325/396	
	4,091,417	May 23, 1978	Nieson	358/117	
	4,095,258	June 13, 1978	Sperber	358/120	
	4,096,542	June 20, 1978	Pappas et al.	361/196	
	4,104,681	August 1, 1978	Saylor et al.	358/141	
	4,107,734	August 15, 1978	Percy et al.	358/84	
	4,107,735	August 15, 1978	Frobach	358/84	
	4,112,317	September 5, 1978	Everswick	307/308	
	4,112,383	September 5, 1978	Burgert	329/50	
	4,114,841	September 19, 1978	Muhlfelder et al.	244/166	
	4,120,003	October 10, 1978	Mitchell et al.	358/142	
	4,124,887	November 7, 1978	Johnson et al.	364/107	
	4,126,762	November 21, 1978	Martin et al.	179/2A	
mm	4,135,213	January 16, 1979	Wintfeld et al.	358/142	

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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE
mm	4,142,156	February 27, 1979	Freund	325/309	
	4,145,717	March 20, 1979	Guif et al.	358/121	
	4,148,066	April 3, 1979	Saylor	358/127	
	4,156,253	May 22, 1979	Steudel	358/11	
	4,156,931	May 29, 1979	Adelman et al.	364/900	
	4,163,252	July 31, 1979	Mistry et al.	358/118	
	4,180,709	December 25, 1979	Cosgrove et al.	179/2 AM	
	4,199,656	April 22, 1980	Saylor	178/66.1	
	4,199,781	April 22, 1980	Doumit	358/83	
	4,199,809	April 22, 1980	Pasahow et al.	364/200	
	4,207,524	June 10, 1980	Purchase	375/22	
	4,214,273	July 22, 1980	Brown	358/188	
	4,215,366	November 13, 1984	Davidson	358/124	
	4,216,497	August 5, 1980	Ishman et al.	358/84	
	4,222,068	September 9, 1980	Thompson	358/120	
	4,225,884	September 30, 1980	Block et al.	358/122	
	4,245,246	January 13, 1981	Cheung	358/124	
	4,246,611	January 20, 1981	Davies	358/194	
	4,247,947	January 27, 1981	Miyamoto	455/38	
	4,250,521	February 10, 1981	Wright	358/8	
	4,258,386	March 24, 1981	Cheung	358/84	
	4,266,243	May 5, 1981	Shutterly	358/121	
	4,272,784	June 9, 1981	Saito et al.	358/127	
	4,273,962	June 16, 1981	Wolfe	179/7.1R	
	4,292,650	September 29, 1981	Hendrickson	358/123	
	4,295,155	October 13, 1981	Jarger et al.	358/12	
	4,301,542	November 17, 1981	Weintraub et al.	455/353	
	4,305,101	December 8, 1991	Yarbrough et al.	360/69	
	4,310,854	January 12, 1982	Baer et al.	358/143	
	4,316,217	February 16, 1982	Rifken	358/86	
	4,318,047	March 2, 1982	Dawson	328/112	
	4,323,921	April 6, 1982	Guillou	358/114	
	4,323,922	April 6, 1982	den Toonder et al.	358/117	
	4,329,711	May 11, 1982	Cheung	358/114	
	4,335,426	June 15, 1982	Maxwell et al.	364/200	
	4,340,906	July 20, 1982	den Toonder et al.	358/124	
	4,341,925	July 27, 1982	Doland	178/22.17	
	4,343,042	August 3, 1982	Schrock et al.	455/5	
	4,348,696	September 7, 1982	Beier	358/188	
	4,354,201	October 12, 1982	Sechet et al.	358/122	
	4,355,415	October 19, 1982	George et al.	455/185	
	4,358,672	November 9, 1982	Hyatt et al.	235/380	
mm	4,360,881	November 23, 1982	Martinson	364/493	

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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE
MM	4,361,848	November 30, 1982	Poignet et al.	358/1	
	4,361,851	November 30, 1982	Asip et al.	358/84	
	4,361,903	November 30, 1982	Ohta	455/2	
	4,365,267	December 21, 1982	Tsuda	358/84	
	4,378,470	March 29, 1983	Murto et al.	179/2 C	
	4,382,256	May 5, 1983	Nagata	340/825.44	
	4,385,384	May 24, 1983	Rosbury et al.	371/22	
	4,386,436	May 31, 1983	Kocher et al.	455/151	
	4,388,643	June 14, 1983	Aminetzah	358/123	
	4,388,644	June 14, 1983	Ishman et al.	358/84	
	4,390,898	June 28, 1983	Bond et al.	358/1199	
	4,390,901	June 28, 1983	Keiser et al.	358/147	
	4,392,135	July 5, 1983	Ohyagi	340/825.44	
	4,393,277	July 12, 1983	Besen et al.	179/2 A	
	4,408,345	October 4, 1983	Yashiro et al.	455/3	
	4,411,017	October 18, 1983	Talbot	455/26	
	4,414,621	November 8, 1983	Bown et al.	364/200	
	4,415,771	November 15, 1983	Martinez	179/5R	
	4,418,425	November 29, 1983	Fennel et al.	455/27	
	4,424,533	January 3, 1984	Rzeszewski	358/167	
	4,425,578	January 10, 1984	Haselwood et al.	358/84	
	4,425,579	January 10, 1984	Merrell	358/86	
	4,425,664	January 10, 1984	Sherman et al.	375/8	
	4,427,968	January 24, 1984	York	340/310	
	4,429,385	January 31, 1984	Cichelli et al.	370/92	
	4,430,731	February 7, 1984	Gimple et al.	370/30	
	4,434,438	February 28, 1984	Rzeszewski	358/167	
	4,439,785	March 27, 1984	Leonard	358/120	
	4,450,481	May 22, 1984	Dickinson	358/114	
	4,450,531	May 22, 1984	Kenyon et al.	364/604	
	4,454,538	June 12, 1984	Toriumi	358/86	
	4,468,701	August 28, 1984	Burcher et al.	358/181	
	4,471,352	September 11, 1984	Soulliard et al.	340/825.44	
	4,475,123	October 2, 1984	Dumbauld et al.	358/114	
	4,476,535	October 9, 1984	Loshing et al.	364/480	
	4,484,218	November 20, 1984	Boland et al.	358/86	
	4,484,328	November 20, 1984	Schlaflly	370/85	
	4,488,179	December 11, 1984	Kruger et al.	358/181	
	4,489,220	December 18, 1984	Oliver	179/2 AM	
	4,489,316	December 18, 1984	MacQuivey	340/700	
	4,494,142	January 15, 1985	Mistry	358/118	
	4,496,975	January 29, 1985	Noirel	358/147	
MM	4,504,831	March 12, 1985	Jahr et al.	340/870.03	

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mm	4,506,387	March 9, 1985	Walter	455/612	
	4,510,623	April 9, 1985	Bonneau et al.	455/181	
	4,528,589	July 9, 1985	Block et al.	358/122	
	4,531,020	July 23, 1985	Wechselberger et al.	178/22.08	
	4,531,021	July 23, 1985	Bluestein et al.	178/22.08	
	4,540,849	September 10, 1985	Oliver	179/2 AM	
	4,543,616	September 24, 1985	Brooks	358/335	
	4,547,804	October 15, 1985	Greenberg	358/142	
	4,554,584	November 19, 1985	Elam et al.	358/165	
	4,558,464	December 10, 1985	O'Brien, Jr.	455/4	
	4,563,702	January 7, 1986	Heller et al.	358/119	
	4,566,030	January 21, 1986	Nickerson et al.	358/84	
	4,570,930	February 18, 1986	Matheson	273/1 E	
	4,578,536	March 25, 1986	Oliver et al.	179/2 AM	
	4,578,718	March 25, 1986	Parker et al.	360/10.3	
	4,592,546	June 3, 1986	Fascenda et al.	273/1 E	
	4,594,609	July 10, 1986	Romao et al.	358/119	
	4,595,952	June 17, 1986	Filliman	358/47	
	4,600,918	July 15, 1986	Belisomi et al.	340/711	
	4,600,921	July 15, 1986	Thomas	340/825.31	
	4,605,964	August 12, 1986	Chard	358/147	
	4,611,227	September 9, 1986	Brockhurst et al.	358/147	
	4,613,901	September 23, 1986	Gilhousen et al.	358/122	
	4,621,259	November 4, 1986	Schepers et al.	340/707	
	4,621,285	November 4, 1986	Schilling et al.	358/120	
	4,623,920	November 18, 1986	Dufresne et al.	358/122	
	4,626,892	December 2, 1986	Nortrup et al.	358/21 R	
	4,633,297	December 30, 1986	Skerlos et al.	358/22	
	4,636,858	January 13, 1987	Hague et al.	358/147	
	4,638,357	January 20, 1987	Heimbach	358/121	
	4,639,779	January 27, 1987	Greenberg	358/142	
	4,646,145	February 24, 1987	Percy et al.	358/84	
	4,649,533	March 10, 1987	Chorley et al.	370/58	
	4,658,290	April 14, 1987	McKenna	358/84	
	4,677,685	June 30, 1987	Kurisu	455/4	
	4,694,490	September 15, 1987	Harvey et al.	380/20	
	4,704,725	November 3, 1987	Harvey et al.	380/48	
	4,706,121	November 10, 1987	Young	358/142	
	4,710,919	December 1, 1987	Oliver et al.	370/96	
	4,710,955	December 1, 1987	Kauffman	380/10	
	4,718,107	January 5, 1988	Hayes	455/4	
	4,723,302	February 2, 1988	Fulmer et al.	455/2	
mm	4,736,422	April 5, 1988	Mason	380/120	

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<i>im</i>	4,744,080	May 10, 1988	Brennand et al.	280/21	
	4,751,732	June 14, 1988	Kamitake	380/20	
	4,754,326	June 28, 1988	Kram et al.	364/900	
	4,768,144	August 30, 1988	Winter et al.	364/200	
	4,768,229	August 30, 1988	Benjamin et al.	380/20	
	4,782,401	November 1, 1988	Faerber et al.	358/335	
	4,785,420	November 15, 1988	Little	364/513.5	
	4,796,181	January 3, 1989	Wiedmer	364/406	
	4,803,725	February 7, 1989	Home et al.	380/44	
	4,805,020	February 14, 1989	Greenberg	358/147	
	4,807,031	February 21, 1989	Broughton et al.	358/142	
	4,809,274	February 28, 1989	Walker et al.	371/37	
	4,816,904	March 28, 1989	McKenna et al.	358/84	
	4,837,799	June 6, 1989	Prohs et al.	379/224	
	4,839,917	June 13, 1989	Oliver	379/45	
	4,841,386	June 20, 1989	Schiering	360/69	
	4,843,482	June 27, 1989	Hegendorfer	358/335	
	4,849,817	July 18, 1989	Short	358/142	
	4,855,842	August 8, 1989	Hayes et al.	358/342	
	4,857,999	August 15, 1989	Welsh	358/84	
	4,862,268	August 9, 1989	Campbell et al.	358/141	
	4,864,615	September 5, 1989	Bennett et al.	380/21	
	4,876,736	October 24, 1989	Kiewit	455/2	
	4,879,611	November 7, 1989	Fukui et al.	360/69	
	4,885,579	December 5, 1989	Sandbank	340/825.72	
	4,885,632	December 5, 1989	Mabey et al.	358/84	
	4,888,638	December 19, 1989	Bohn	358/84	
	4,888,796	December 19, 1989	Olivo, Jr.	379/101	
	4,890,320	December 26, 1989	Monslow et al.	380/10	
	4,891,703	January 2, 1990	Noudan	358/142	
	4,897,867	January 30, 1990	Foster et al.	379/94	
	4,907,260	March 6, 1990	Prohs et al.	379/224	
	4,907,273	March 6, 1990	Wiedemer	380/16	
	4,908,707	March 13, 1990	Kinghorn	358/147	
	4,908,713	March 13, 1990	Levine	358/335	
	4,908,834	March 13, 1990	Wiedemer	380/5	
	4,908,845	March 13, 1990	Little	379/51	
	4,912,552	March 27, 1990	Allison, III et al	358/84	
	4,914,517	April 3, 1990	Duffield	358/191.1	
	4,930,158	May 29, 1990	Vogel	380/5	
	4,931,871	June 5, 1990	Kramer	358/142	
	4,931,877	June 5, 1990	Gebhardt et al.	358/335	
<i>mm</i>	4,935,870	June 19, 1990	Bork, Jr. et al.	364/200	

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mm	4,939,773	July 3, 1990	Katz	379/204	
	4,943,963	July 24, 1990	Waechter et al.	370/94.1	
	4,945,412	July 31, 1990	Kramer	358/142	
	4,945,563	July 31, 1990	Horton et al.	380/5	
	4,947,302	August 7, 1990	Callahan	362/233	
	4,949,187	August 14, 1990	Cohen	358/335	
	4,954,899	September 4, 1990	Tanabe et al.	358/191.1	
	4,959,720	September 25, 1990	Duffield et al.	358/191.1	
	4,963,994	October 16, 1990	Levine	358/335	
	4,963,995	October 16, 1990	Lang	358/335	
	4,965,825	October 23, 1990	Harvey et al.	380/9	
	4,967,273	October 30, 1990	Greenberg	358/142	
	4,975,951	December 9, 1990	Bennett	380/20	
	4,977,455	December 11, 1990	Young	358/142	
	4,982,430	January 1, 1991	Frezza et al.	380/50	
	4,989,104	January 29, 1991	Schulein et al.	360/72.1	
	4,991,011	February 5, 1991	Johnson et al.	358/141	
	4,991,025	February 5, 1991	Eigeldinger	358/310	
	4,993,003	February 12, 1991	Fechner et al.	368/47	
	4,993,066	February 12, 1991	Jenkins	380/16	
	4,994,908	February 19, 1991	Kuban et al.	358/86	
	4,995,078	February 19, 1991	Monslow et al.	380/10	
	5,001,554	March 19, 1991	Johnson et al.	358/86	
	5,002,491	March 26, 1991	Abrahamson et al.	434/322	
	5,003,384	March 26, 1991	Durden et al.	358/84	
	5,003,591	March 26, 1991	Kauffman et al.	380/10	
	5,010,459	April 23, 1991	Taylor et al.	362/85	
	5,012,510	April 30, 1991	Schaubs et al.	379/92	
	5,013,038	May 7, 1991	Luxenberg et al.	273/439	
	5,014,125	May 7, 1991	Pocock et al.	358/86	
	5,016,272	May 14, 1991	Stubbs et al.	380/5	
	5,016,273	May 14, 1991	Hoff	380/10	
	5,027,400	June 25, 1991	Baji et al.	380/20	
	5,029,207	July 2, 1991	Gammie	380/10	
	5,038,211	August 6, 1991	Hallenbeck	358/142	
	5,045,816	September 3, 1991	Bramhall et al.	332/105	
	5,045,947	September 3, 1991	Beery	358/192.1	
	5,047,867	September 10, 1991	Strubbe et al.	358/335	
	5,047,928	September 10, 1991	Wiedemer	364/406	
	5,055,924	October 8, 1991	Skutta	358/84	
	5,057,932	October 15, 1991	Lang	358/335	
	5,058,160	October 15, 1991	Banker et al.	380/20	
mm	5,062,136	October 29, 1991	Gattis et al.	380/18	

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<i>Mc</i>	5,067,149	November 19, 1991	Schneid et al.	379/224	
	5,072,418	December 10, 1991	Boutaud et al.	364/715.06	
	5,075,771	December 24, 1991	Hashimoto	358/84	
	5,083,800	January 12, 1992	Lockton	273/439	
	5,093,718	March 3, 1992	Hoarty et al.	358/84	
	5,093,921	March 3, 1992	Bevins Jr.	455/4	
	5,101,267	March 31, 1992	Morales-Garza	358/84	
	5,108,115	April 28, 1992	Berman et al.	273/439	
	5,109,414	April 28, 1992	Harvey et al.	368/47	
	5,111,401	May 5, 1992	Everett, Jr. et al.	364/424.02	
	5,113,496	May 12, 1992	McCalley et al.	395/200	
	5,120,076	June 9, 1992	Luxemberg et al.	273/439	
	5,124,942	June 23, 1992	Nielsen et al.	395/100	
	5,132,992	July 21, 1992	Yurt et al.	375/122	
	5,133,079	July 21, 1992	Ballantyne et al.	455/4.1	
	5,140,419	August 18, 1992	Galumbeck et al.	358/142	
	5,142,677	August 25, 1992	Ehlig et al.	395/650	
	5,142,690	August 25, 1992	McMullan, Jr. et al.	455/6.1	
	5,144,664	September 1, 1992	Esserman et al.	380/20	
	5,148,482	September 15, 1992	Bocci et al.	380/48	
	5,151,789	September 29, 1992	Young	358/194.1	
	5,155,590	October 13, 1992	Beyers, II et al.	358/86	
	5,155,591	October 13, 1992	Wachob	358/86	
	5,155,812	October 13, 1992	Ehlig et al.	395/275	
	5,157,716	October 20, 1992	Naddor et al.	379/92	
	5,164,839	November 17, 1992	Lang	358/335	
	5,172,413	December 15, 1993	Bradley et al.	380/20	
	5,181,113	January 19, 1993	Chang	358/142	
	5,185,796	February 9, 1993	Wilson	380/21	
	5,187,797	February 16, 1993	Nielsen et al.	395/800	
	5,191,410	March 7, 1993	McCalley et al.	358/86	
	5,195,092	March 16, 1993	Wilson et al.	370/94.2	
	5,195,134	March 16, 1993	Inoue	380/20	
	5,202,916	April 13, 1993	Oliver	379/106	
	5,204,768	April 20, 1993	Tsakiris et al.	359/148	
	5,208,665	May 4, 1993	McCalley et al.	358/86	
	5,212,553	May 18, 1993	Maruoka	358/188	
	5,213,337	May 25, 1993	Sherman	273/439	
	5,216,504	June 1, 1993	Webb et al.	358/139	
	5,220,501	June 15, 1993	Lawlor et al.	364/408	
	5,222,137	June 22, 1993	Barrett et al.	380/21	
	5,223,924	June 29, 1993	Strubbe	358/86	
<i>Mc</i>	5,225,902	July 6, 1993	McMullan, Jr.	358/86	

*McM* March 68-27-98



EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
mm	5,226,177	July 6, 1993	Nickerson	455/2	
	5,231,493	July 27, 1993	Apitz	358/146	
	5,233,654	August 3, 1993	Harvey et al.	380/20	
	5,235,415	August 10, 1993	Bonicel et al.	358/84	
	5,235,619	August 10, 1993	Beyers, II et al.	375/38	
	5,235,634	August 10, 1993	Oliver	379/106	
	5,237,417	August 17, 1993	Hayashi et al.	358/183	
	5,237,610	August 17, 1993	Gammie et al.	380/10	
	5,239,575	August 24, 1993	White et al.	379/107	
	5,247,364	September 21, 1993	Banker et al.	358/191.1	
	5,247,575	September 21, 1993	Sprague et al.	380/9	
	5,251,324	October 5, 1993	McMullan, Jr.	455/2	
	5,251,909	October 12, 1993	Reed et al.	273/439	
	5,252,077	October 12, 1993	Schott	434/335	
	5,253,066	October 12, 1993	Vogel	358/188	
	5,253,275	October 12, 1993	Yurt et al.	375/122	
	5,254,977	October 19, 1993	MacDonald	345/150	
	5,255,086	October 19, 1993	McMullan, Jr. et al.	358/86	
	5,260,778	November 9, 1993	Kauffman et al.	358/86	
	5,266,944	November 30, 1993	Carroll et al.	340/825.36	
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	5,267,865	December 7, 1993	Lee et al.	434/350	
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	5,293,357	March 8, 1994	Hallenbeck	348/734	
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	5,343,239	August 30, 1994	Lappington et al.	348/12	
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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
mm	5,345,445	September 6, 1994	Hiller et al.	370/60.1	
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	5,349,687	September 20, 1994	Ehlig et al.	395/800	
	5,351,130	September 27, 1994	Dugan et al.	358/725	
	5,351,970	October 4, 1994	Fioretti	273/439	
	5,353,121	October 21, 1994	Young et al.	348/563	
	5,367,330	November 22, 1994	Haave et al.	348/7	
	5,374,951	December 20, 1994	Welsh	348/4	
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	5,420,647	May 30, 1995	Levine	348/734	
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	5,430,552	July 4, 1995	O'Callaghan	358/335	
	5,432,558	July 11, 1995	Kim	348/460	
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	5,485,509	January 16, 1996	Oliver	379/106	
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<i>mm</i>	0 020 242	December 10, 1980	European	G09G 1/16		X
	0 046 108	February 17, 1982	European	H04N 5/76		X
	0 049 184	April 7, 1982	European	G09B 7/08		X
	0 055 167	June 30, 1982	European	G09G 1/16		X
	0 056 649	July 28, 1982	European	H04N 5/44	X	
	0 077 712	April 27, 1983	European	H04N 7/00		X
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	0 583 196 A1	February 16, 1994	European	H04N 7/173	X	
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EXAMINER <i>Melvin Marsals</i>	DATE CONSIDERED <i>08-27-98</i>
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).	



<b>Information Disclosure Statement by Applicant</b>  Title: <b>Signal Processing Apparatus and Method</b>	Attorney Docket No. 5634.109	Serial No. 08/444,788
	Applicant(s) John C. Harvey <i>and</i> James W. Cuddihy	
	Filing Date May 19, 1995	Group 2602/348

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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
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Examiner <i>Malvin Maralo</i>	Date Considered 08-27-98
<b>Examiner:</b> Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>Information Disclosure Statement by Applicant</b>  <b>Title: Signal Processing Apparatus and Method</b>	Attorney Docket No. 5634.109	Serial No. 08/444,788
	Applicant(s) John C. Harvey <i>and</i> James W. Cuddihy	
	Filing Date May 19, 1995	Group 2602/348

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	4,228,543	10/14/80	Jackson	455/181	
MM	4,231,031	10/28/80	Crowther et al.	340/695	

Examiner <i>Marcelo</i>	Date Considered <i>08-27-98</i>
<b>Examiner:</b> Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>Information Disclosure Statement by Applicant</b>  <b>Title: Signal Processing Apparatus and Method</b>	Attorney Docket No. 5634.109	Serial No. 08/444,788
	Applicant(s) John C. Harvey <i>and</i> James W. Cuddihy	
	Filing Date May 19, 1995	Group 2602/348

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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
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	4,278,973	7/14/81	Hughes et al.	340/721	
	4,278,993	7/14/81	Suzuki	358/22	
	4,308,558	12/29/81	Hernandez et al.	358/142	
	4,315,282	2/9/82	Schumacher	358/107	
	4,337,485	6/29/82	Chambers	358/147	
	4,344,090	8/10/82	Belisomi et al.	358/183	
	4,361,848	11/30/82	Poignet et al.	358/1	
	4,374,395	2/15/83	Herrmann et al.	358/22	
	4,405,946	9/20/83	Knight	358/192.1	
	4,412,244	10/25/83	Shanley, II	358/22	
	4,413,281	11/1/83	Thonnart	358/147	
MM	4,420,769	12/13/83	Novak	358/139	

Examiner <i>Melvin Marcelo</i>	Date Considered <i>08-27-88</i>
<b>Examiner:</b> Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>Information Disclosure Statement by Applicant</b>  <b>Title: Signal Processing Apparatus and Method</b>	Attorney Docket No. 5634.109	Serial No. 08/444,788
	Applicant(s) John C. Harvey <i>and</i> James W. Cuddihy	
	Filing Date May 19, 1995	Group 2602/348

### U. S. Patent Documents

Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
mm	4,430,669	2/7/84	Cheung	358/122	
	4,449,249	5/15/84	Price	455/45	
	4,450,442	5/22/84	Tanaka	340/814	
	4,456,925	6/26/84	Skeros et al.	358/85	
	4,477,830	10/16/84	Lindman et al.	358/1	
	4,495,654	1/22/85	Deiss	455/151	
	4,496,171	1/29/85	Cherry	283/61	
	4,496,976	1/29/85	Swanson et al.	358/147	
	4,498,098	2/5/85	Stell	358/22	
	4,550,407	10/29/85	Couasnon et al.	371/29	
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	4,595,951	6/17/86	Filliman	358/147	
	4,614,972	9/30/86	Motsch et al.	358/147	
	4,616,262	10/7/86	Toriumi et al.	358/183	
	4,620,227	10/28/86	Levin et al.	358/147	
	4,620,229	10/28/86	Amano et al.	358/194.1	
	4,626,909	12/2/86	Oniki et al.	358/114	
mm	4,639,890	1/27/87	Heilveil et al.	364/900	

Examiner <i>Melvin Marcelo</i>	Date Considered <i>08.27.98</i>
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### U. S. Patent Documents

Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
JMM	4,663,735	5/5/87	Novak et al.	364/900	
	4,688,197	8/18/87	Novak et al.	365/230	
	4,691,351	9/1/87	Hayashi et al.	380/10	
	4,710,800	12/1/87	Fearing et al.	358/22	9/16/85
	4,720,819	1/19/88	Pinkham et al.	365/219	12/30/83
	4,745,549	5/17/88	Hashimoto	364/402	6/6/86
	4,747,081	5/24/88	Heilveil et al.	365/219	12/30/83
	4,768,144	8/30/88	Winter et al.	364/200	10/20/86
	4,768,228	8/30/88	Clupper et al.	380/20	9/11/87***
	4,829,569	5/9/89	Seth-Smith et al.	380/10	7/8/86
	4,885,775	12/5/89	Lucas	380/10	9/21/84
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MM	Re. 32,187	6/17/86	Barda et al.	340/706	

\*

- If pertinent

\*\*\* - Claims priority from patent application filed prior to Sept. 11, 1987

Examiner Melvin Marallo	Date Considered 08.27.98
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	Filing Date May 19, 1995	Group 2602/348

### Foreign Patent Documents

Examiner Initial	Document Number	Publication Date	Country	Class / Subclass	Translation	
					Yes	No
MM	60-61935	4/9/85	Japan	G11B15/02	abs.	
MM	61-50470	3/12/86	Japan	H04N 5/44	abs.	
MM	0 133 985	3/13/85	European Patent Office	H 04 N 7/087	abs.	
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Examiner Initial	Author, Title, Date, Pertinent Pages, Etc.
MM	Gecsei, Jan. <u>The Architecture of Videotex Systems</u> (Englewood Cliffs, N.J.: Prentice-Hall, Inc., 1983), pp. 174-177, 233-238.
	Sigel, Efrem et al. <u>The Future of Videotext: Worldwide Prospects for Home/Office Electronic Information Services</u> (White Plains, N.Y.: Knowledge Industry Publications, Inc., 1983), pp. 28, 119-126.
	Raggett, Michael. "Broadcast Telesoftware," <u>Computer Graphics World</u> , Vol. 6, No. 9, September 1983, table of contents, pp. 49, 50, 52 and letters.
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MM	"Telesoftware and Education Project: Summary of Report," A Joint BBC/ITV & Brighton Research Project, Summer 1982, 111 p. and appendix.

Examiner <i>Melvin Marcelo</i>	Date Considered <i>08-27-98</i>
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Examiner Initial	Author, Title, Date, Pertinent Pages, Etc.
mm	Damouny, N.G. "Teletext Decoders - Keeping Up with the Latest Technology Advances," <u>Consumer Electronics</u> , Vol. CE-30, No. 3, August 1984, pp. 429-436.
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	Russell, R.T. "Teletext remote control," part 1, <u>Wireless World</u> , April 1979, 4 pages.
	Russell, R.T. "Teletext remote control", part 2, <u>Wireless World</u> , May 1979, pp. 83-86.
	Pandey, K. "Second generation teletext and viewdata decoders," <u>Proceedings IEE</u> , Vol. 126, December 1979, pp. 1367-1373.
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Examiner melvin Marcelo	Date Considered 08-27-98
<b>Examiner:</b> Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>Information Disclosure Statement by Applicant</b>  <b>Title: Signal Processing Apparatus and Method</b>	Attorney Docket No. 5634.109	Serial No. 08/444,788
	Applicant(s) John C. Harvey <i>and</i> James W. Cuddihy	
	Filing Date May 19, 1995	Group 2602/348

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Examiner Initial	Author, Title, Date, Pertinent Pages, Etc.
MM	Roizen, Joseph. "Teletext in the USA," <u>SMPTE Journal</u> , Vol. 90, July 1981, pp. 602-610.
	Money, Steve A. <u>Teletext and Viewdata</u> (London: Butterworth & Co., Ltd., 1981), preface, pp. 1-145, glossary and index.
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MM	Heuer, D.A. "A Microprocessor Controlled Memory Tuning System," <u>Consumer Electronics</u> , Vol. CE-25, No. 4, August 1979, pp. 677-683.

Examiner Melvin Marcello	Date Considered 08-27-98
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	Filing Date May 19, 1995	Group 2602/348

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Examiner Initial	Author, Title, Date, Pertinent Pages, Etc.
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	Lipoff, Stuart J. "Mass Market Potential for Home Terminals," <u>Consumer Electronics</u> , vol. unk., pp. 169-184.
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MM	Kokado, N. et al., "A Programmable TV Receiver," <u>IEEE Transactions on Consumer Electronics</u> , Vol. 22, No. 1, Feb. 1976, pp. 69-83.

Examiner Melvin Marcelo	Date Considered 08-27-98
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### U. S. Patent Documents

Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
<i>MM</i>	4,369,333	1/18/83	Gemperle et al.	178/22.13	
	4,377,870	3/22/83	Anderson et al.	455/2	
	4,410,911	10/18/83	Field et al.	358/121	
	4,414,516	11/8/83	Howard	333/21A	
	4,420,656	12/13/83	Freeman	179/6.04	
	4,422,486	12/27/83	Maret	144/117R	
	4,429,385	1/31/84	Cichelli et al.	370/92	
	4,433,211	2/21/84	McCalmont et al.	179/1.5 S	
	4,433,379	2/21/84	Schenk et al.	364/200	
	4,443,660	4/17/84	DeLong	178/22.04	
	4,449,114	5/15/84	Fascenda et al.	340/988	
	4,450,477	5/22/84	Lovett	358/86	
	4,451,700	5/29/84	Kempner et al.	179/2 AS	
	4,454,543	6/12/84	Lund et al.	358/118	
	4,454,594	6/12/84	Heffron et al.	364/900	
	4,458,109	7/3/84	Mueller-Schloer	178/22.11	
	4,458,315	7/3/84	Uchenick	364/200	
<i>MM</i>	4,460,922	7/17/84	Ensinger et al.	358/122	

Examiner <i>Melvin Marcelo</i>	Date Considered <i>08-27-98</i>
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### U. S. Patent Documents

Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
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f	4,462,076	7/24/84	Smith, III	364/200	
	4,462,078	7/24/84	Ross	364/300	
	4,475,153	10/2/84	Kihara et al.	364/145	
	4,475,189	10/2/84	Herr et al.	370/62	
	4,476,573	10/9/84	Duckeck	455/45	
	4,484,027	11/20/84	Lee et al.	178/22.13	
	4,484,217	11/20/84	Block et al.	358/84	
	4,486,773	12/4/84	Okubo	358/84	
	4,488,289	12/11/84	Turner	370/60	
	4,491,945	1/1/85	Turner	370/60	
	4,494,156	1/15/85	Kadison et al.	360/48	
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	4,503,287	3/5/85	Morris et al.	178/22.08	
	4,503,538	3/5/85	Fritz	371/28	
	4,507,680	3/26/85	Freeman	358/86	
	4,509,073	4/2/85	Baran et al.	358/86	
mm	4,512,011	4/16/85	Turner	370/60	

Examiner <i>Melvin Morales</i>	Date Considered <i>08-27-98</i>
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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
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	4,521,806	6/4/85	Abraham	358/86	
	4,527,194	7/2/85	Sirazi	358/86	
	4,531,020	7/23/85	Wechselberger et al.	178/22.08	
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	4,544,963	10/1/85	Jacoby et al.	360/40	
	4,546,382	10/8/85	McKenna et al.	358/84	
	4,546,387	10/8/85	Glaab	358/186	
	4,547,804	10/15/85	Greenberg	358/142	
	4,553,252	11/12/85	Egendorf	377/15	
mm	4,554,418	11/19/85	Toy	179/2 DP	

Examiner <i>Melvin Marcello</i>	Date Considered 08-27-98
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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
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	4,562,465	12/31/85	Glaab	358/120	
	4,562,495	12/31/85	Bond et al.	360/78	
	4,566,030	1/21/86	Nickerson et al.	358/84	
	4,567,512	1/28/86	Abraham	358/86	
	4,573,072	2/25/86	Freeman	358/86	
	4,573,151	2/25/86	Jotwani	370/56	
	4,574,305	3/4/86	Campbell et al.	358/86	
	4,575,750	3/11/86	Callahan	358/86	
	4,577,289	3/18/86	Comerford et al.	364/900	
	4,580,165	4/1/86	Patton et al.	358/148	
	4,583,128	4/15/86	Anderson, Jr. et al.	358/302	
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	4,588,991	5/13/86	Atalla	340/825.31	
	4,589,064	5/13/86	Chiba et al.	364/200	
mm	4,590,516	5/20/86	Abraham	358/86	

Examiner <i>Melvin Marala</i>	Date Considered 08-27-98
<b>Examiner:</b> Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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	Applicant(s) John C. Harvey <i>and</i> James W. Cuddihy	
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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
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	4,591,664	5/27/86	Freeman	179/6.06	
	4,591,906	5/27/86	Morales-Garza et al.	358/84	
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	4,599,647	7/8/86	George et al.	358/122	
	4,602,279	7/22/86	Freeman	358/86	
	4,603,232	7/29/86	Kurland et al.	179/2 AS	
	4,605,973	8/12/86	Von Kohorn	358/335	
	4,608,456	8/26/86	Paik et al.	179/1.5 S	
	4,613,901	9/23/86	Gilhousen et al.	358/122	
	4,616,263	10/7/86	Eichelberger	358/185	
mm	4,620,224	10/28/86	Lee et al.	358/119	

Examiner: <i>Michael Marshall</i>	Date Considered <i>08-27-95</i>
<b>Examiner:</b> Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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### U. S. Patent Documents

Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
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	4,630,108	12/16/86	Gomersall	358/84	
	4,630,262	12/16/86	Callens et al.	370/81	
	4,634,807	1/6/87	Chorley et al.	178/22.08	
	4,634,808	1/6/87	Moerder	178/22.14	
	4,635,121	1/6/87	Hoffman et al.	358/188	
	4,638,181	1/20/87	Deiss	307/243	
	4,638,359	1/20/87	Watson	358/147	
	4,639,779	1/27/87	Greenberg	358/142	
	4,641,205	2/3/87	Beyers, Jr.	360/33.1	
	4,641,253	2/3/87	Mastran	364/328	
	4,641,307	2/3/87	Russell	370/60	
	4,646,075	2/24/87	Andrews et al.	340/747	
	4,647,964	3/3/87	Weinblatt	358/84	
	4,656,629	4/7/87	Kondoh et al.	370/85	
	4,658,093	4/14/87	Hellman	380/25	
	4,677,434	6/30/87	Fascenda	380/23	
mm	4,677,466	6/30/87	Lert, Jr. et al.	358/84	

Examiner <i>Melvin Marcelo</i>	Date Considered <i>Oct. 27 - 88</i>
<b>Examiner:</b> Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



<b>Information Disclosure Statement by Applicant</b>  <b>Title: Signal Processing Apparatus and Method</b>	Attorney Docket No. 5634.109	Serial No. 08/444,788
	Applicant(s) John C. Harvey <i>and</i> James W. Cuddihy	
	Filing Date May 19, 1995	Group 2602/348

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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
mm	4,677,611	6/30/87	Yanosy, Jr. et al.	370/85	
	4,680,581	7/14/87	Kozlik et al.	340/825.06	
	4,684,980	8/4/87	Rast et al.	358/86	
	4,685,056	8/4/87	Barnsdale, Jr. et al.	364/200	
	4,685,131	8/4/87	Horne	380/20	
	4,688,247	8/18/87	Davidov	380/19	
	4,689,022	8/25/87	Peers et al.	434/307	
	4,689,619	8/25/87	O'Brien, Jr.	340/825.08	
	4,692,817	9/8/87	Theis	360/12	
	4,692,819	9/8/87	Steele	360/72.1	
	4,694,491	9/15/87	Horne et al.	380/20	3/11/85
	4,695,953	9/22/87	Blair et al.	364/410	4/14/86
	4,696,034	9/22/87	Wiedemer	380/16	10/12/84
	4,697,281	9/29/87	O'Sullivan	379/59	3/14/86
	4,701,794	10/20/87	Fröling et al.	358/147	4/12/85
	4,706,121	11/10/87	Young	358/142	5/6/86
	<del>B1 4,706,121</del>	<del>12/14/93</del>	<del>Young</del>	<del>358/142</del>	<del>5/6/86</del>
mm	4,706,282	11/10/87	Knowd	380/3	12/23/85

Examiner <i>Melvin M. ...</i>	Date Considered <i>08-27-98</i>
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	Applicant(s) John C. Harvey <i>and</i> James W. Cuddihy	
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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
mm	4,707,828	11/17/87	Yamada	370/85	9/10/85
	4,709,418	11/24/87	Fox et al.	455/612	9/14/83
	4,710,955	12/1/87	Kauffman	380/10	11/25/85
	4,712,105	12/8/87	Köhler	340/825.69	4/30/85
	4,712,238	12/8/87	Gilhousen et al.	380/20	6/8/84
	4,712,239	12/8/87	Frezza et al.	380/20	6/16/86
	4,722,526	2/2/88	Tovar et al.	273/1 E	1/20/87
	4,724,491	2/9/88	Lambert	358/310	8/28/84
	4,725,886	2/16/88	Galumbeck et al.	358/147	4/21/83
	4,728,949	3/1/88	Platte et al.	340/825.37	3/23/84
	4,731,679	3/15/88	O'Gwynn et al.	360/73	9/20/84
	4,733,301	3/22/88	Wright, Jr.	358/181	6/26/87
	4,734,764	3/29/88	Pocock et al.	358/86	5/6/85
	4,737,993	4/12/88	DeVilbiss	455/180	1/21/87
	4,739,510	4/19/88	Jeffers et al.	380/15	4/2/87
	4,740,890	4/26/88	William	364/200	12/22/83
mm	4,745,468	5/17/88	Von Kohorn	358/84	3/10/86
	<del>B1 4,745,468</del>	<del>6/11/91</del>	<del>Von Kohorn</del>	<del>358/84</del>	<del>3/10/86</del>

Examiner <i>melvin Morales</i>	Date Considered 08-27-98
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	Applicant(s) John C. Harvey and James W. Cuddihy	
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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
mm	4,745,598	5/17/88	Ulug	370/89	11/27/85
	4,747,139	5/24/88	Taaffe	380/44	10/21/86
	4,748,560	5/31/88	Kataoka	364/200	10/11/85
	4,750,036	6/7/88	Martinez	358/147	5/14/86
	4,750,213	6/7/88	Novak	455/67	6/9/86
	4,751,578	6/14/88	Reiter et al.	358/183	5/28/85
	4,751,665	6/14/88	Cappello et al.	364/748	2/24/86
	4,754,326	6/28/88	Kram et al.	364/900	10/25/83
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	4,761,646	8/2/88	Choquet et al.	340/825.520	5/20/86
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	4,768,087	8/30/88	Taub et al.	358/84	6/6/85
	4,768,110	8/30/88	Dunlap et al.	360/33.1	5/6/87
	4,771,456	9/13/88	Martin et al.	380/10	11/6/86
	4,775,935	10/4/88	Yourick	364/401	9/22/86
	4,783,846	11/8/88	Wachob	455/151	6/4/87
mm	4,786,979	11/22/88	Claus et al.	358/335	5/22/86

Examiner Melvin Marcello	Date Considered 08-27-98
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<b>Information Disclosure Statement by Applicant</b>  <b>Title: Signal Processing Apparatus and Method</b>	Attorney Docket No. 5634.109	Serial No. 08/444,788
	Applicant(s) John C. Harvey and James W. Cuddihy	
	Filing Date May 19, 1995	Group 2602/348

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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
mm	4,787,063	11/22/88	Muguet	364/900	10/16/85
	4,787,085	11/22/88	Suto et al.	370/110.1	5/29/87
	4,789,863	12/6/88	Bush	340/825.350	1/13/88***
	4,792,849	12/20/88	McCalley et al.	358/86	8/4/87
	4,792,973	12/20/88	Gilhousen et al.	380/24	12/4/87***
	4,802,114	1/31/89	Sogame	364/900	12/15/86
	4,803,725	2/7/89	Horne et al.	380/44	5/14/87
	4,805,014	2/14/89	Sahara et al.	358/86	9/14/87***
	4,812,843	3/14/89	Champion, III et al.	340/905	8/11/87
	4,813,011	3/14/89	Kulakowski et al.	364/900	5/13/85
	4,815,129	3/21/89	Griffin et al.	380/15	1/2/85
	4,816,905	3/28/89	Tweedy et al.	358/86	4/30/87
	4,821,032	4/11/89	Shimada et al.	340/825.210	12/23/85
	4,821,102	4/11/89	Ichikawa et al.	358/183	7/29/87
	4,827,508	5/2/89	Shear	380/4	10/14/86
	4,829,372	5/9/89	McCalley et al.	358/86	8/20/87
	4,833,710	5/23/89	Hirashima	380/20	12/3/87***
mm	4,837,858	6/6/89	Ablay et al.	455/34	4/30/87

Examiner <i>Melvin Marada</i>	Date Considered 08-27-98
<b>Examiner:</b> Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>Information Disclosure Statement by Applicant</b>  <b>Title: Signal Processing Apparatus and Method</b>	<b>Attorney Docket No.</b> 5634.109	<b>Serial No.</b> 08/444,788
	<b>Applicant(s)</b> John C. Harvey <i>and</i> James W. Cuddihy	
	<b>Filing Date</b> May 19, 1995	<b>Group</b> 2602/348

### U. S. Patent Documents

Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
MM	4,845,491	7/4/89	Fascenda et al.	340/825.44	5/15/87
	4,847,698	7/11/89	Freeman	358/343	7/16/87
	4,847,699	7/11/89	Freeman	358/343	7/16/87
	4,847,700	7/11/89	Freeman	358/343	7/16/87
	4,860,379	8/22/89	Schoeneberger et al.	455/5	10/20/88***
	4,866,706	9/12/89	Christophersen et al.	370/85.7	8/27/87
	4,868,866	9/19/89	Williams, Jr.	380/49	2/18/88***
	4,876,592	10/24/89	Von Kohorn	358/84	5/10/88***
	4,887,172	12/12/89	Steele	360/73.06	4/10/87
	4,888,796	12/19/89	Olivo, Jr.	379/101	8/31/87
	4,890,321	12/26/89	Seth-Smith et al.	380/20	9/30/88***
	4,893,248	1/9/90	Pitts et al.	364/464.01	2/6/87
	4,908,713	3/13/90	Levine	358/335	6/29/88***
	4,916,539	4/10/90	Galumbeck	358/142	3/14/89***
	4,926,255	5/15/90	Von Kohorn	358/84	5/10/88***
	4,941,040	7/10/90	Pocock et al.	358/86	2/10/88***
	4,963,994	10/16/90	Levine	358/335	2/23/90***
MM	4,969,209	11/6/90	Schwob	455/158	6/29/88***

<b>Examiner</b> MM Navalo	<b>Date Considered</b> 08-27-98
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<b>Information Disclosure Statement by Applicant</b>	Attorney Docket No. 5634.109	Serial No. 08/444,788
	Applicant(s) John C. Harvey <i>and</i> James W. Cuddihy	
	Filing Date May 19, 1995	Group 2602/348

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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
mm	4,974,252	11/27/90	Osborne	379/92	10/4/88***
	4,977,594	12/11/90	Shear	380/4	2/16/89***
	5,010,571	4/23/91	Katznelson	380/4	9/10/86
	5,034,807	7/23/91	Von Kohorn	358/84	10/19/89***
	5,036,537	7/30/91	Jeffers et al.	380/20	4/3/87
	5,045,848	9/3/91	Fascenda	340/825.26	9/29/87***
	5,050,213	9/17/91	Shear	380/25	8/6/90***
	5,057,915	10/15/91	Von Kohorn	358/84	10/25/90***
	5,060,140	10/22/91	Brown et al.	364/200	1/16/86
	5,083,271	1/21/92	Thacher et al.	364/411	8/3/88***
	5,089,885	2/18/92	Clark	358/86	8/1/88***
	5,128,752	7/7/92	Von Kohorn	358/84	10/25/90***
	5,140,419	8/18/92	Galumbeck et al.	358/142	12/21/89***
	5,144,663	9/1/92	Kudelski et al.	380/16	11/13/90***
	5,152,011	9/29/92	Schwob	455/158.5	6/19/90***
	5,152,012	9/29/92	Schwob	455/158.5	4/27/90***
	5,172,111	12/15/92	Olivo, Jr.	340/825.31	12/18/89***
mm	5,177,604	1/5/93	Martinez	358/86	6/3/88***

Examiner <i>Melvin Marade</i>	Date Considered <i>08-27-98</i>
<p><b>Examiner:</b> Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

<b>Information Disclosure Statement by Applicant</b>  <b>Title: Signal Processing Apparatus and Method</b>	Attorney Docket No. 5634.109	Serial No. 08/444,788
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	Filing Date May 19, 1995	Group 2602/348

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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
MM	5,191,410	3/2/93	McCalley et al.	358/86	2/5/91***
	5,195,092	3/16/93	Wilson et al.	370/94.2	8/30/91***
	5,208,665	5/4/93	McCalley et al.	358/86	2/15/91***
	5,216,552	6/1/93	Dunlap et al.	360/33.1	8/30/88***
	5,227,874	7/13/93	Von Kohorn	358/84	10/15/91***
	5,283,734	2/1/94	Von Kohorn	364/412	9/19/91***
	D302,178	7/11/89	King	D20/1	11/28/86
	Re. 32,835	1/17/89	Howard	333/21 A	11/6/85
	Re. 33,662	8/13/91	Blair et al.	364/410	9/21/89***
MM	Re. 34,034	8/18/92	O'Sullivan	379/59	9/29/89***

\*- If pertinent

\*\*\*- Claims priority from parent application filed prior to Sep. 11, 1987.

### Foreign Patent Documents

Examiner Initial	Document Number	Publication Date	Country	Class / Subclass	Translation	
					Yes	No
MM	0 055 674	7/7/82	European Patent Appl.	H04L 11/20		X

Examiner <i>Michael Marado</i>	Date Considered <i>08-27-98</i>
<b>Examiner:</b> Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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	Filing Date May 19, 1995	Group 2602/348

mm	0 103 438 A1	3/21/84	European Patent Appl.	H04N 7/10		X
	0 128 481 A2	12/19/84	European Patent Appl.	H04N 7/00		X
	0 152 251	8/21/85	European Patent Appl.	H04H 1/02		X
	0 206 821	12/30/86	European Patent Appl.	H04N 7/00		X
	0 217 308 A2	4/8/87	European Patent Appl.	H04M 11/00		X
	2 126 002 A	3/14/84	Great Britain	G11B 15/02 H04N 7/00		X
	2 185 670 A	7/22/87	Great Britain	H04N 7/087		X
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	60-256289	12/17/85	Japan	H04N 7/173	X	
	61-148988	7/7/86	Japan	H04N 7/173	X	
	DE 3337204 A1	4/25/85	German	H04N 5/44	X	
	WO 85/03830	8/29/85	PCT Appl.	H04N 7/16 H04K 1/04		X
mm	WO 87/04884	8/13/87	PCT Appl.	H04M 11/08 H04M 15/00		X


Examiner Aulvin Marcelo	Date Considered 08.27.98
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	Filing Date May 19, 1995	Group 2602/348

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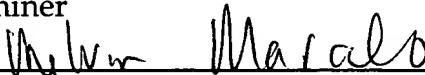
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MM	Baran, Paul (PACKETCABLE INC.), "PACKETCABLE: A New Interactive Cable System Technology," <u>CABLE '82 - Technical Papers</u> , National Cable Television Association 31st Annual Convention, Las Vegas, NV, May 3-5, 1982 (" <u>CABLE '82</u> "), pp. 1-6.
	Tunmann, Ernest O. (TELE-ENGINEERING CORPORATION), "TWO-WAY CABLE TV TECHNOLOGIES," <u>CABLE '82</u> , pp. 7-15.
	Dickinson, Robert V.C. (E-COM CORPORATION), "Carriage of Multiple One-Way and Interactive Service on CATV Networks," <u>CABLE '82</u> , pp. 16-21.
	McNamara, R.P. et al. (Sytek, Incorporated), "MetroNet: An Overview of a CATV Regional Data Network," <u>CABLE '82</u> , pp. 22-31.
	Eissler, Charles (Oak Communications Systems), "Addressable Control for the Small System," <u>CABLE '82</u> , pp. 32-36.
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	Klare, Stephen W. (Scientific - Atlanta), "Bandwidth-Efficient, High-Speed Modems for Cable Systems," <u>CABLE '82</u> , pp. 72-78.
MM	Jubert, Jay (Wang Laboratories, Inc.), "Wangnet, A Cable-Based Localnet," <u>CABLE '82</u> , pp. 79-81.

Examiner 	Date Considered 08-27-98
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MM	Switzer, I. (Cable America, Inc.), "Cable TV Advances and TV Receiver Compatibility Problems," <u>CABLE '82</u> , pp. 114-118.
	Skrobko, John (Scientific-Atlanta Incorporated), "Improving CATV System Reliability with Automatic Status Monitoring and Bridger Switching," <u>CABLE '82</u> , pp. 133-137.
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	von Meister, William F. (Digital Music Company), "The Home Music Store," <u>CABLE '82</u> , pp. 180-182.
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MM	Alvord, Charles, Dr. (Communications Technology Management, Inc.), "Creating Standards for Interconnect Systems," <u>CABLE '82</u> , pp. 190-196.

Examiner 	Date Considered 08-27-98
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	Filing Date May 19, 1995	Group 2602/348

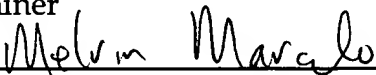
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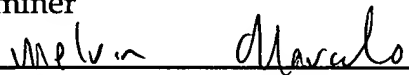
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<b>Information Disclosure Statement by Applicant</b>  <b>Title: Signal Processing Apparatus and Method</b>	Attorney Docket No. 5634.109	Serial No. 08/444,788
	Applicant(s) John C. Harvey <i>and</i> James W. Cuddihy	
	Filing Date May 19, 1995	Group 2602/348

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Examiner <i>Melvin Marcelo</i>	Date Considered 88-27-98
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Examiner <i>Michael Macale</i>	Date Considered 08-27-98
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Examiner <i>melvin Marcello</i>	Date Considered <i>08.27.98</i>
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Examiner <i>Melvin Marado</i>	Date Considered 08-27-98
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Examiner Melvin Masala	Date Considered 08-27-98
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Examiner MM March	Date Considered 08-27-98
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Examiner <i>MM Marcia</i>	Date Considered 88-27-98
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	Filing Date May 19, 1995	Group 2602/348

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Examiner Melva Mavalo	Date Considered 08-27-98
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Examiner <i>Milw Marale</i>	Date Considered 08-27-98
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Examiner <i>William Murdock</i>	Date Considered 08-17-98
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Examiner <i>mm - March</i>	Date Considered 08.27.98
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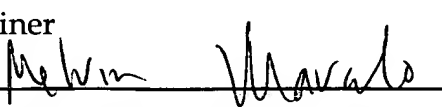
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Examiner <i>Melvin Mavento</i>	Date Considered <i>08.27.98</i>
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	Filing Date May 19, 1995	Group 2602/348

### Other Documents

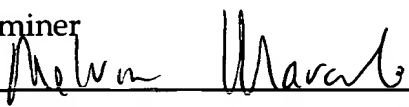
Examiner Initial	Author, Title, Date, Pertinent Pages, Etc.
WMM	"Interactive Data Communication Network Services," product description, Equatorial Communications Company, 3 pages.
	"Data Communications Network Description," product description, Equatorial Communications Company, 5 pages.
	Landro, Laura, "Satellite Company Signs Merrill Lynch For Its Video Service," <u>The Wall Street Journal</u> , 1 page.
	"ELITE 2000 Creation System," IBM Compatible Information Display System, advertisement, Display Systems International, Inc., 1 page.
	"Video Database Management . . . When Words Are Not Enough," advertisement, U.S. Video, 2 pages.
	"U.S. Video presents . . . True Computer-Video Overlays," The Raster Master RM-110, product description, U.S. Video, 2 pages.
	"Now You Can Find Just The Right Image Every Time Quickly and Easily with Image Search and The IBM PC/XT," advertisement, ONLINE Computer Systems, Inc., 1 page.
	"Touch the Future Today," advertisement, MetaMedia Systems, Inc., 1 page.
	"Training solutions for the 80's and beyond," advertisement, ONLINE Computer Systems, Inc., 2 pages.
MM	"Experienced Educator/Trainers," "Use the new PILOT plus Training System to develop highly interactive courseware on your IBM PC that will run on most microcomputers," advertisement, ONLINE Computer Systems, Inc., 2 pages.

Examiner <i>Michael Mavels</i>	Date Considered 08.27.88
<b>Examiner:</b> Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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### Other Documents

Examiner Initial	Author, Title, Date, Pertinent Pages, Etc.
MM	"Technical Specifications For Hardware And Software Products," Online Products Corporation, 9 pages.
	"Museum Image Series," product information, ONLINE Products Corporation, 2 pages.
	"OMEGA VISION," product description, Omega Management Group Corp., 2 pages.
	"VISAGE Visual Information Systems," Interactive Video Products, brochure, Visage, Inc.
	"Now The Future Is Clear," Visage Visual Information Systems, brochure, Visage, Inc., 4 pages.
	"Speak Through The Power Of Today's Technology," QUEST, product description, Allen Communication, 4 pages.
	"Universal Video Controller," product description, Allen Communication, 2 pages.
	"Video-Microcomputer Interface," product description, Allen Communication, 2 pages.
	"The Leader In Interactive Video," advertisement, Allen Communication, 2 pages.
	"Allen Communication Price List," Allen Communication, 1 page.
	"TOUCHÉ Interactive videodisc training by IIAT," advertisement, IIAT, International Institute of Applied Technology, Inc., 1 page.
MM	"TOUCHÉ Interactive Videodisc System," product description, IIAT, International Institute of Applied Technology, Inc., 2 pages.

Examiner 	Date Considered 08-17-88
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### Other Documents

Examiner Initial	Author, Title, Date, Pertinent Pages, Etc.
MM	"IIAT ST-1000A IIAT Training Station," product description, IIAT, International Institute of Applied Technology, Inc., 2 pages.
	"IIAT ST-1000B IIAT Training Station," product description, IIAT, International Institute of Applied Technology, Inc., 2 pages.
	"IIAT International Institute of Applied Technology, Inc.," company description, 4 pages.
	"PILOT plus Course Authoring Interpreter," IIAT Products, product description, 1 page.
	"Touch Monitor/Videodisc Player Interface Card and Video Switch Box," IIAT Products, product description, 1 page.
	"Touch Sensitive Monitor Interface Card for Apple II," IIAT Products, product description, 1 page.
	"Touchpoint, A Total Eclipse of Existing Technology," product description, Allen Communication, 2 pages.
	"Totally Integrated Interactive System - TII-PC," product description, Allen Communication, 2 pages.
	"Most Valuable Peripheral," product description, Allen Communication, 2 pages.
	"Allen Communication Introduces Integrated Interactive Video Systems," brochure, 2 pages.
	"Automation, Control and Monitoring Systems," brochure, Jasmin Electronics Limited.
MM	"jasmin," company brochure, Jasmin Electronics Limited, 4 pages.
Examiner Melvin Havallo	Date Considered 08.27.98
<b>Examiner:</b> Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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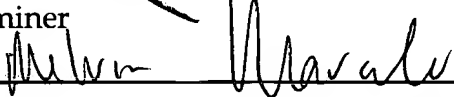
Examiner Initial	Author, Title, Date, Pertinent Pages, Etc.
mm	"jasmin Teletext Systems," advertisement, Jasmin Electronics Limited, 4 pages.
	"jasmin Process Control Systems," advertisement, Jasmin Electronics Limited, 4 pages.
	"Teleprompter of Denver Channel Line Up," 2 pages.
	"City of Seal Beach Channel Utilization Guide," 3 pages.
	"V: Link 1910: The Single-Slot VGA Interactive Video Solution," product description, Visage, Inc., 4 pages.
	"The OASYS Authoring System," advertisement, ONLINE Computer Systems, Inc., 1 page.
	"Advertisers Guide to Cable TV Terms," brochure, Cable Ad Associates, Inc.
	"Cable Audience Measurement Study," A Prospectus based upon recommendations of the Ad Hoc Cable Measurement Committee, pamphlet.
	Kane, Sharyn et al., "Technology in the First Person," reprint from Delta Air Lines' SKY magazine, 4 pages.
	"Training Systems," brochure, WICAT systems, Training Systems Division, 4 pages.
	"The Consultant," advertisement, CO-OPPORTUNITIES, Sales Development Information Systems, a division of Jefferson-Pilot Communications Company.
mm	"Introducing SPOT DATA," "Cable Ad Sales Just Got Better," advertisement, TV Data Technologies, 4 pages.

Examiner <i>John C. Harvey</i>	Date Considered 08-27-88
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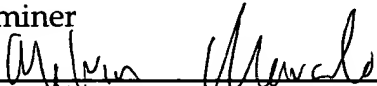
Examiner Initial	Author, Title, Date, Pertinent Pages, Etc.
MM	"Do You Want to be Making \$5-\$10 a Subscriber - Right Now?" "Join Us in Our Success!", advertisement, Multi-Image Systems, 1 page.
	"Mediastar," "the message is clear," brochure, Multi-Image Systems, 6 pages.
	"Art To Go" "The Business Builder in a Box," advertisement, Multi-Image Systems, 1 page.
	"Few Things In Life Work As Well As TAPSCAN," advertisement, TAPSCAN Incorporated, 6 pages.
	"Dow Jones Cable News Service Daily Features Financial Markets," product summary, 1 page.
	"Financial News Network The Business Connection," brochure, Financial News Network, 8 pages.
	"The Financial News Network Means Business," advertisement, The Financial News Network, 1 page.
	"The Dawn of a New Era in Financial News Broadcasting," advertisement, Financial News Network, 1 page.
	"FNN Financial News Network," advertisement, brief review of research from the Stanford Research Institute's VALS study, and research from ELRA Group Cablemark Reports Volume I, 4 pages.
MM	"Industrial Skills Training With The Touch Of A Finger . . . Introducing . . . Activ," Advanced Concepts in Touch-Interactive Video, advertisement, Industrial Training Corporation, 4 pages.

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AM	"eca," brochure, Effective Communication Arts, Inc., 4 pages.
	"ODC 612 Encoder/Generator," product description, Optical Disc Corporation, 2 pages.
	"... the Recordable Laser Videodisc - RLV," product description, Optical Disc Corporation, 2 pages.
	"ODC 610 Videodisc Recording System," product description, Optical Disc Corporation, 2 pages.
	"Hitachi New CD-ROM Drive CDR-2500," product description, Hitachi, Ltd., 2 pages.
mm	"Hitachi CD-ROM Drive CDR-1502S," product description, Hitachi, Ltd., 6 pages.

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